

May 19, 2010

Osage ENR Office  
First National Bank Building  
100 W. Main St., Suite 304  
Pawhuska, Oklahoma 74056

Re: Lease Name: North Burbank Unit Tract 15  
Well No.: W21  
Location: SW/4 Sec 11-T27N-R05E  
Osage County, Oklahoma

Dear ENR Personnel:

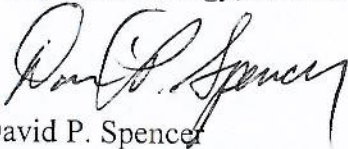
Please find Chaparral Energy, L.L.C.'s CO<sub>2</sub> Permit Application for the referenced well. This well is currently a "By-Rule" water injection well and that will not change. However, in discussion with EPA personnel in Dallas, it was found necessary to permit this well for the CO<sub>2</sub> injection also. This way the well can be used to inject both types of fluid. Notice we said fluid because at the temperature and pressure we are proposing the CO<sub>2</sub> which is normally thought of as a gas will be in its liquid state.

Chaparral is undertaking a large project to bring all the wells in the area of this well up to standards which will contain the CO<sub>2</sub> within the Burbank Injection Zone. We are also enclosing Form 139's which have been filed with the Bureau of Indian Affairs Osage Agency to workover surrounding producing and shut-in producer wells. This should show you and the EPA that Chaparral is serious about containing CO<sub>2</sub> within the Burbank. Since CO<sub>2</sub> is a commodity which Chaparral will purchase and transport to the Unit for use, Chaparral does not want to lose it to other zones or the atmosphere.

We have explained to EPA permitting personnel in the Regional Office that there is a pressure factor involved with this injection which must be met to obtain adequate reservoir pressure to obtain miscible flooding. That pressure is believed to be near 1060 psig for the Burbank at our proposed injection temperature. This will help create the most efficient WAG (water and gas) Flood.

If you have any questions or need more data, please contact us at the address listed.

Sincerely,  
**Chaparral Energy, L.L.C.**



David P. Spencer  
Manager of Regulatory Affairs  
Direct Number: (405) 426-4397  
Direct Fax: (405) 425-8897  
E-Mail: [david.spencer@chaparralenergy.com](mailto:david.spencer@chaparralenergy.com)

Enclosures

cc: Mr. Ray Leissner, EPA Region 6, 1445 Ross Ave., Suite 1200, Dallas, Texas 75202 ✓

*P.S. - Working on area permit but  
it's taking time.  
D. Spencer*

# PERMIT APPLICATION PACKAGE



**OSAGE NATION UIC**  
**FIRST NATIONAL BANK BLDG.**  
**100 W. MAIN ST., STE. 304**  
**PAWHUSKA, OK 74056**  
**Tel: 918/287.5333**  
**Fax: 918/287.5581**



Most injection wells which are currently operating in Osage County are "Authorized By Rule" (ABR) and need not apply for an individual permit. However, wells in the following categories must apply for and receive an EPA permit to construct or operate oil and gas related injection wells in Osage County:

1. Any well constructed or completed after December 30, 1984;
2. Any *production* well converted to an injection well after December 30, 1984;
3. In a utilized operation, any new well which is not authorized by a previous permit;
4. Wells which the operator wishes to operate outside rule requirements (e.g., at a higher pressure than authorized by rule.);
5. Wells which were authorized by rule but have not been identified as one of the following:
  - a. being in violation of the rule;
  - b. no longer within the category of rule authorized well;
  - c. needing additional restrictions to protect underground source of drinking water (USDW's).\*\*\*

Please include or reference all the information requested in this package so that we may quickly process your application without delay. A copy of this application package will be immediately forwarded to the Osage Agency BIA and EPA.

At any time, if you have questions about the information requested, please call our office at 918.287.5333. We will be happy to assist you.

*\*\*\*Operators of wells in this category will receive a letter from the Dallas EPA directing them to apply for a permit.*

Well Name & No.: \_\_\_\_\_

Permit #: \_\_\_\_\_

Date Rec'd: \_\_\_\_\_

### PERMIT APPLICATION CHECKLIST

	Attached	Not Attached	
1.	_____	_____	Osage Form 139, "Application for Operation or Report on Wells.
2.	_____	_____	Osage Form 208 "Completion Report".
3.	_____	_____	Copy of Plat Map showing wells within 1/4 mile radius of proposed well.
4.	_____	_____	Tabulation of data on wells within 1/4 mile radius including well name, company name, date drilled, depth, exact location, status of well & record of pluggings/completions.
5.	_____	_____	Injection well schematic showing total depth and plugback depth, depth from top & bottom of casing(s) & cemented intervals, cement amount, depth & size of casing & tubing, including depth of packer.
6.	_____	_____	Operating data including: type of well; maximum and average injection rate; source and analysis of injected fluids including TDS, chlorides and additives; major geological formation with top bottoms.
7.	_____	_____	Geological data of the injection zones including name(s), total thickness, porosity, lithologic description, permeability, injection depth, reservoir pressure/fluid level. Address the presence or absence of faults.
8.	_____	_____	Public Notice verifications, consisting of a list showing names, addresses, and date that notice of permit application was given or sent to the surface land owner, tenants of land where the injection well will be located, each operator of a producing lease within 1/2 mile of the well location.
9.	_____	_____	All available logging & testing data of the well attached.

Attached

Not Attached

10. \_\_\_\_\_

Copy of surety bond filed with the BIA superintendent (25 CFR §266.6).

11. \_\_\_\_\_

Certification form signed by the well owner/operator or authorized representative. (Authorization must be attached & in writing.)

12. YES NO

Has the applicant declared any part of his submission as confidential? {147.2907}

13. YES NO

Is the well currently Authorized by Rule? If yes, Inventory No. \_\_\_\_\_.

14. YES NO

Was the applicant required by EPA to apply for a permit?

15. YES NO

Is the permit applicant the owner/operator. (Circle one or both.)

16. YES NO

Has the applicant requested emergency authorization to inject? If yes, attach emergency checklist.

17. YES NO

Berms and all facilities associated with saltwater system adequate?

\_\_\_\_\_  
Pawhuska Technician/Administrative Review

\_\_\_\_\_  
Date

\_\_\_\_\_  
6W-SE Reviewer

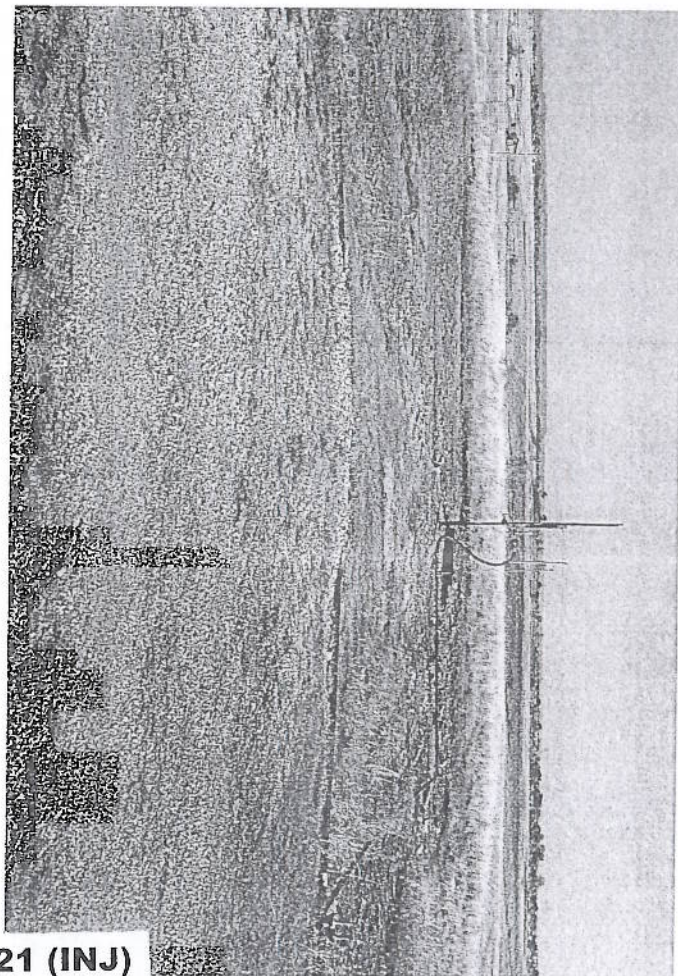
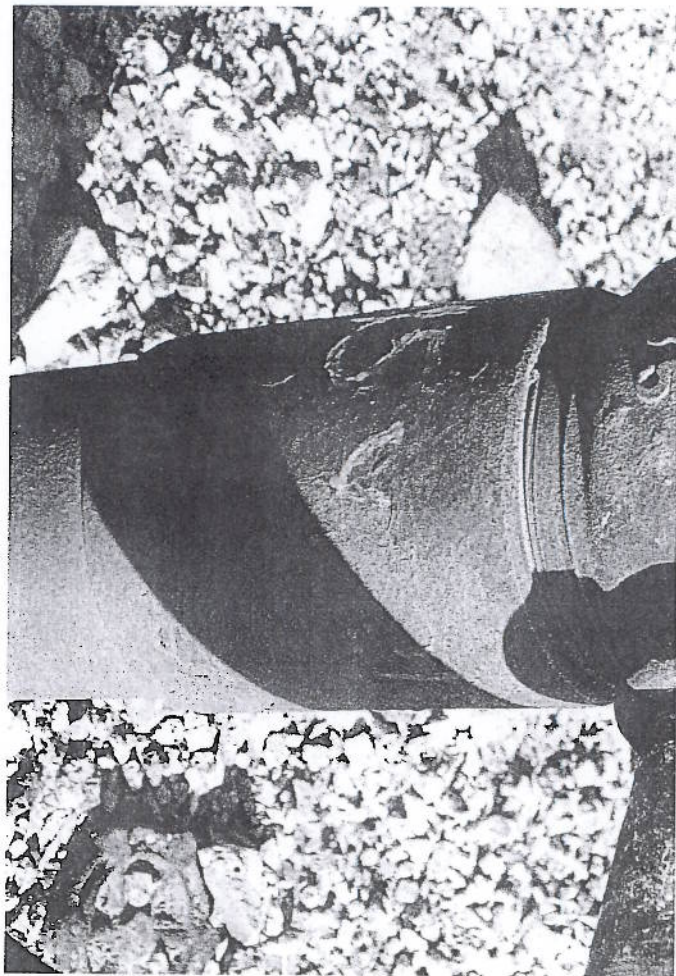
\_\_\_\_\_  
Date

Owner/Operator: \_\_\_\_\_ Permit# \_\_\_\_\_

### PERMIT TRACKING PROCEDURE CHECKLIST

<u>Date</u>	<u>Initial</u>	
_____	_____	Application logged in; Number Assigned & Receipt Date Stamped on Application.
_____	_____	Application reviewed for completeness.
_____	_____	Surety bond attached.
_____	_____	Operator notified of incompleteness.
_____	_____	Application terminated due to no response within 30 days.
_____	_____	Application determined complete & file started on well.
_____	_____	Completion letter mailed to operator.
_____	_____	Transmitted copy to BIA & EPA.
_____	_____	RBDMS data entered & well schematic prepared.
_____	_____	Date of 6-W Signature.
_____	_____	Draft Permit, Statement of Basis, Public Notice & Letter of Intent signed & mailed to operator & BIA.
_____	_____	Data Entry Accomplished.
_____	_____	Public Notice submitted to newspaper.
_____	_____	Public Notice publication verified.
_____	_____	Comment Period Ends.
_____	_____	Comments reviewed & 6W decided whether to hold public hearing. <input type="checkbox"/> YES <input type="checkbox"/> NO
_____	_____	Permit Finalized & Response to Comments prepared. (IF REQUIRED)
_____	_____	Final Permit Approved; Returned for concurrence if different from Draft Permit.
_____	_____	Final Permit, Cover Letter to Operator; Responsiveness Summary, etc. sent to applicant, Osage UIC & BIA.
_____	_____	Responsiveness Summary including Final
_____	_____	Permit decision mailed to appropriate parties.
_____	_____	Permit effective date: _____
_____	_____	Complete inventory data sheet & complete data entry.
_____	_____	Permit appealed to Administrator? <input type="checkbox"/> YES <input type="checkbox"/> NO
_____	_____	Proof of MIT mailed to Dallas.





NBU #15-21 (INJ)

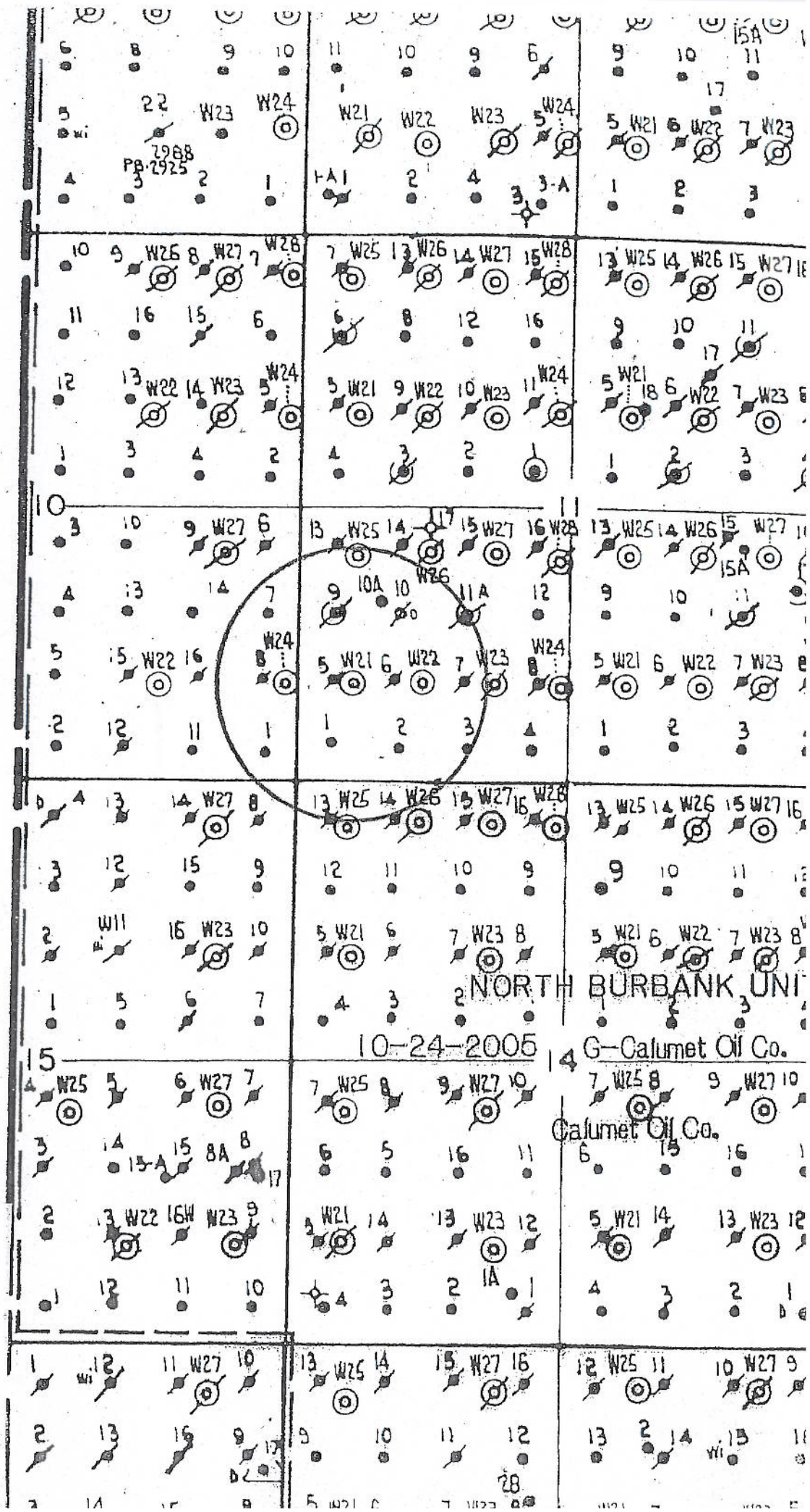


**Chaparral**  
ENERGY

**North Burbank Unit 15-W21**

**4 Sec 11-T27N-R05E**

**Osage County, Oklahoma**  
**Quarter Mile Radius Map**





OSAGE TABULATION OF WELLS WITHIN 1/4 MILE OF PROPOSED INJECTION  
WELL WHICH PENETRATE THE INJECTION ZONE

Proposed Inj Well NBU 15-W21

Well Name NBU 14-1 Company Name Phillips Petroleum Co. Date Drilled 1/13/1924 Depth 3093

Location 300' FS L & 300' FE L, SE 1/4, Sec. 10, T 27 N, R 05 E Status Shut-in Producer

Elevation 1184 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	55 '			
"	12 1/2 "	582 '	To be squeezed from 500' to surf	Surf	
"	8-5/8 "	2386 '	To be squeezed from 500' to surf and from 2286-2050'	Surf	
"	7 "	2762 '	To be squeezed from 500' to surf and from 2750-2050'	Surf	
"	3 1/2 "	2750 '	To be cemented to surface before CO2	Surf	

Formations Open To Wellbore: Burbank (Openhole 2762' - 3093')

Well Name NBU 14-7 Company Name Phillips Petroleum Co. Date Drilled 3/21/1924 Depth 2988

Location 988' FN L & 300' FE L, SE 1/4, Sec. 10, T 27 N, R 05 E Status Shut-in Producer

Elevation 1101 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	20 '			
"	15 1/2 "	21 '	To be squeezed from 500' to surf	Surf	
"	8-5/8 "	2283 '	To be squeezed from 500' to surf and from 2283-2040'	Surf	
"	7 "	2758 '	To be squeezed from 500' to surf and from 2740-2040'	Surf	
"	3 1/2 "	2740 '	To be cemented to surface before CO2	Surf	

Formations Open To Wellbore: Burbank (Openhole 2758' - 2988')

Well Name NBU 14-8 Company Name Phillips Petroleum Co. Date Drilled 3/23/1924 Depth 3040

Location 988' FS L & 300' FE L, SE 1/4, Sec. 10, T 27 N, R 05 E Status P&A'd in 1964

Elevation 1126 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	20 '			
"	10 "	222 '	From 1480 to 1258' stuck in hole		
"	8-5/8 "	2303 '			
"	7 "	2777 '			
"	"	"			
"	"	"			

Formations Open To Wellbore: NONE



OSAGE TABULATION OF WELLS WITHIN 1/4 MILE OF PROPOSED INJECTION  
WELL WHICH PENETRATE THE INJECTION ZONE

Proposed Inj Well NBU 15-W21

Well Name NBU 15-1 Company Name Phillips Petroleum Co. Date Drilled 5/9/1924 Depth 3046

Location 300' F S L & 300' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status Shut-in Producer

Elevation 1131 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	20 '			
"	10 "	607 '	To be squeezed from 500' to surface.	Surface	
"	8-5/8 "	2338 '	To be squeezed from 500' to surf and from 2338-2060'.	Surface	
"	7 "	2783 '	To be squeezed from 500' to surf and from 2788-2060'.	Surface	
"	3 1/2 "	2760 '	To be cemented to surface before CO2	Surface	

Formations Open To Wellbore:

Burbank (Openhole 2783 - 3046')

Well Name NBU 15-2 Company Name Phillips Petroleum Co. Date Drilled 6/24/1924 Depth 3075

Location 300' F S L & 981' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status Shut-in Producer

Elevation 1151 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	19 '			
"	15 1/2 "	496 '	To be squeezed from 500' to surface.	Surface	
"	10 "	1036 '	To be squeezed from 500' to surface.	Surface	
"	8-5/8 "	2375 '	To be squeezed from 500' to surf and from 2375-2110'.	Surface	
"	7 "	2833 '	To be squeezed from 500' to surf and from 2833-2110'.	Surface	
"	3 1/2 "	2810 '	To be cemented to surface before CO2	Surface	

Formations Open To Wellbore: Burbank (Openhole 2833' - 3075')

Well Name NBU 23-13 Company Name Midland Oil Co. Date Drilled 6/13/1924 Depth 3140

Location 300' F N L & 300' F W L, NW 1/4, Sec. 14, T 27 N, R 05 E Status P&A'd in 1963

Elevation ? ☐ GL ☐ KB

Hole	Casing	Landed	Cement & Additive Data	Top of	If well is TA or P&A Describe
"	20 "	38			Seal off formation by cmt thru retainer @
"	15 1/2 "	967			2600' w/80 sx Reg w/30% Diacel "D".
"	10 3/4 "	1520			Parted 7" @ 2525' & POOH w/same.
"	8-5/8 "	2423			Parted 8-5/8" @ 2340' & POOH w/same.
"	7 "	2898			Parted 10 3/4" @ 1310' & POOH w/same.
"	"	"			Parted 15 1/2" @ 635' & POOH w/same.
"	"	"			Then mudded hole from 2600' to surf.

Formations Open To Wellbore: None

OSAGE TABULATION OF WELLS WITHIN 1/4 MILE OF PROPOSED INJECTION  
WELL WHICH PENETRATE THE INJECTION ZONE

Proposed Inj Well NBU 15-W21

Well Name NBU 15-5 Company Name Phillips Petroleum Co. Date Drilled 5/27/1924 Depth 3022

Location 981' F S L & 300' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status P&A'd in 1963

Elevation 1106 ☒ GL ☐ KB

<u>Hole Size</u>	<u>Casing Size</u>	<u>Landed Depth</u>	<u>Cement &amp; Additive Data</u>	<u>Top of Cement</u>	<u>If well is TA or P&amp;A Describe How:</u>
"	20 "	20 '			Spotted 120 sx Reg w/30% Diacel "D" to plug formation @ 2941'. Tag TOC @ 2500'. Part 7" & POOH from 2410'. Spot 10 sx Reg @ 2380'. Parted 8-5/8" @ 1805' & POOH w/ same. Parted 10" @ 1020 & POOH w/ same. Mudded hole to surf.
"	15½ "	598 '			
"	10 "	1319 '			
"	8-5/8 "	2326 '			
"	7 "	2785 '			
Formations Open To Wellbore: NONE					

Well Name NBU 15-6 Company Name Phillips Petroleum Co. Date Drilled 7/7/1924 Depth 3020

Location 981' F S L & 981' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status P&A'd in 1963

Elevation 1113 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	8 '			Spot 50 sx Reg w/30% Diacel "D" @ 2960'. Tag TOC @ 2574'. Parted 7" @ 2350' & POOH w/same. Spot 10 sx Reg @ 2350'. Parted 8-5/8" @ 2110' & POOH w/ same. Mudded hole to surf w/ heavy mud.
"	15 1/2 "	18 '			
"	10 "	545 '			
"	8-5/8 "	2318 '			
"	7 "	2808 '			
"	5 1/2 "	2960 '	2777-2960'		
Formations Open To Wellbore: <u>NONE</u>					

Well Name NBU 15-9 Company Name Phillips Petroleum Co. Date Drilled 5/18/1924 Depth 2993

Location 981' F N L & 300' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status P&A'd in 1997

Elevation 1089 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	20 '			Spot 45 sx plug @ 2900'. Tag TOC @ 2000'. Shootoff 7" & 8-5/8" @ 435'. POOH w/7" Couldn't pull 7-5/8". Perf 8-5/8" @ 418', 350', 300', 250', 200', 150', & 100'. RIH w/ Ws to 400' & pump 300 sx 50/50 poz cmt w/ no returns. WOC & tag cmt @ 310'. Pump 300 more sx 50/50 poz cmt. WOC & tag TOC @ 46'. Circ 125 sx 50/50 plug to surf. Cutoff 3' below GL.
"	8-5/8 "	2310 '			
"	7 "	2750 '			
"	5½ "	2792 '	Liner from 2616 - 2792' cmt w/50 sx Reg		
"	"	"			
"	"	"			
Formations Open To Wellbore: <u>NONE</u>					



OSAGE TABULATION OF WELLS WITHIN 1/4 MILE OF PROPOSED INJECTION  
WELL WHICH PENETRATE THE INJECTION ZONE

Proposed Inj Well NBU 15-W21

Well Name NBU 15-10 Company Name Phillips Petroleum Co. Date Drilled 6/8/1924 Depth 2986'

Location 981' F N L & 981' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status P&A'd in 1963

Elevation 1085 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20"	92'			CO to PBTD @ 2960'. Spot 30 sx Reg w/30% Diacel "D" @ 2926'. Tag TOC @ 2846'. Part 7" @ 2700' & POOH w/same.
"	8-5/8"	2512'			Spot 10 sx Reg @ 2600'. Parted 8-5/8" @ 500' & POOH w/same. Mud hole to surf w/heavy mud.
"	7"	2740'			
"	"	"			
"	"	"			

Formations Open To Wellbore: None

Well Name NBU 15-10A Company Name Phillips Petroleum Co. Date Drilled 7/10/1963 Depth 3002'

Location 927' F N L & 927' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status Shut-in Producer

Elevation 1090 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	10 3/4"	119'	90 sx Reg	Surface	
"	7"	2940'	47 sx Reg w/30% Diacel "D". To be sqz so TOC @ least 2220'. Also cmt from 500' to surf.	Surface	
"	3 1/2"	2920'	To be cemented to surface before CO2 injection.	Surface	
"	"	"			
"	"	"			

Formations Open To Wellbore:

Burbank (Openhole 2940' - 3002')

Well Name NBU 15-3 Company Name Phillips Petroleum Co. Date Drilled 6/2/1924 Depth 3064'

Location 300' F S L & 981' F E L, SW 1/4, Sec. 11, T 27 N, R 05 E Status Shut-in Producer

Elevation 1128 ☒ GL ☐ KB

Hole	Casing	Landed	Cement & Additive Data	Top of	If well is TA or P&A Describe
"	20"	20'			
"	8-5/8"	2370'			
"	2842"	7'	Squeeze cmt when 3 1/2" is cmt'd from 2820 to 2120'. Also cmt from 500' to surface if not pulled.		
"	2820"	3 1/2'	Cmt to surface before CO2@ injection	Surface	
"	"	"			

Formations Open To Wellbore: Burbank (Openhole 2979' - 3064')

OSAGE TABULATION OF WELLS WITHIN 1/4 MILE OF PROPOSED INJECTION  
WELL WHICH PENETRATE THE INJECTION ZONE

Proposed Inj Well NBU 15-W21

Well Name NBU 15-7 Company Name Phillips Petroleum Co. Date Drilled 6/5/1924 Depth 3010

Location 980' F S L & 981' F E L, SW 1/4, Sec. 11, T 27 N, R 05 E Status P&A'd in 1963

Elevation 1099 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	12 '			Spot 80 sx Reg w/30% Diacel "D" @
"	10 "	337 '			2960' TOC = 2400'. Parted 7" @ 2350
"	8-5/8 "	2292 '			& POOH w/same. Dump 10 sx Reg @
"	7 "	2772 '			2350'. Parted 8-5/8" @ 1280' & PPOH
"	"	"			w/same. Mud hole from 2350 to surf.

Formations Open To Wellbore: None

Well Name NBU 15-11A Company Name Phillips Petroleum Co. Date Drilled 8/5/1924 Depth 2985

Location 960' F N L & 1002' F E L, SW 1/4, Sec. 11, T 27 N, R 05 E Status P&A'd in 1995

Elevation 1031 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	31 '			Pump 120 sx Reg @ 2935'. TOC = 2913'. Pump
"	8-5/8 "	2280 '			40 sx Reg @ 2872' to seal Burbank. Mud hole to
"	7 "	2745 '			surf. POOH w/ parted 7" @ 500'. Try to POOH w/
"	5 1/2 "	liner	Pulled at P&A		parted 8-5/8 @ 409'. Could not pull. Mix & pump
"	"	"			600 sx to circ cmt behind csg. Filled to 179'.
"	"	"			Pump 230 sx Reg to circ to surf.

Formations Open To Wellbore:

None

Well Name NBU 15-13 Company Name Phillips Petroleum Co. Date Drilled 5/22/1924 Depth 2975

Location 300' F N L & 300' F W L, SW 1/4, Sec. 11, T 27 N, R 05 E Status P&A in 1966

Elevation 1075 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 "	41 '			Haliburton sealed formation thru SDC Pkr
"	8-5/8 "	2280 '			@ 2680' w/ 60 sx Reg & 30% Diacel "D".
"	7 "	2730 '			Part 7" @ 2620' & POOH w/same. Spot 10
"	"	"			sx Reg @ 2600'. Parted 8-5/8" @ 1500' &
"	"	"			POOH w/same. Filled hole with mud to surf.
"	"	"			Spot 45 sx Reg @ 145'. Spot 10 sx Reg @
"	"	"			45'. Fill cellar w/5 sx Reg to surf.

Formations Open To Wellbore: None



OSAGE TABULATION OF WELLS WITHIN 1/4 MILE OF PROPOSED INJECTION  
WELL WHICH PENETRATE THE INJECTION ZONE

Proposed Inj Well NBU 15-W21

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Well Name NBU 15-W25 Company Name Phillips Petroleum Co. Date Drilled 10-31-1963 Depth 2997

Location 435' F N L & 545' F W L, SW /4, Sec. 11, T 27 N, R 05 E Status Active Injector

Elevation 1075 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	8-5/8 "	111 '	90 Sx Reg	Surface	'
7-7/8 "	4 1/2 "	2939 '	75 sx Reg w/30% Diacel "D"	2150	'
"	3 1/2 "	2910 '	To be cmt'd to surface prior to CO2 injection.	Surface	'
"	"	"	"	"	"
"	"	"	"	"	"

Formations Open To Wellbore: Burbank (Openhole 2939' - 2997')

\*\*\*\*\*

Well Name NBU 14-W24 Company Name Phillips Petroleum Co. Date Drilled 6/27/1963 Depth 3050

Location 890' F S L & 75' F E L, SE /4, Sec. 10, T 27 N, R 05 E Status Active Injector

Elevation 1120 ☒ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	8-5/8 "	120 '	110 sx Reg	Surface	'
7-7/8 "	4 1/2 "	2986 '	75 sx Reg w/30% Diacel "D"	2200	'
"	3 1/2 "	2970 '	To be cmt'd to surf before CO2.	Surface	'
"	"	"	"	"	"
"	"	"	"	"	"

Formations Open To Wellbore: Burbank (Openhole 2986' - 3050')

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Well Name \_\_\_\_\_ Company Name \_\_\_\_\_ Date Drilled \_\_\_\_\_ Depth \_\_\_\_\_

Location \_\_\_\_\_ ' F \_\_\_\_\_ L & \_\_\_\_\_ ' F \_\_\_\_\_ L, \_\_\_\_\_ /4, Sec. \_\_\_\_\_, T \_\_\_\_\_ N, R \_\_\_\_\_ E Status \_\_\_\_\_

Elevation \_\_\_\_\_ ☐ GL ☐ KB

Hole Size	Casing Size	Landed Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"

Formations Open To Wellbore: \_\_\_\_\_

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## WELL SCHEMATIC

Operator: Chaparral Energy, L.L.C.  
Completion Date: Drilling 6/23/1963  
Workover Proposed

Well Name & No.: NBU 15-W21  
890 ft. ~~XXX~~ S } line and 565 ft. from ~~XXX~~ W }  
SW 1/4 Section 11 Township 27N Range 05E

Surface Elevation: 1124

Tubing Size: 2-3/8"  
Weight: 4.5  
Length: 2970'

Packer Type: Arrowset 1X Coated  
Set at: 2970'

Formation(s) perforated above  
er: \_\_\_\_\_ to \_\_\_\_\_;  
\_\_\_\_\_ to \_\_\_\_\_

Open hole below production  
Casing from 3003 to 3061  
Formation(s) present in open  
hole: Burbank Sand

### SURFACE CASING DATA

Hole size: \_\_\_\_\_ inches  
Casing size: 8-5/8 inches  
Weight: 32 lb/ft.  
Length: 110 ft.

Cement type: Class A  
Amount: 105 sx.  
Additives: \_\_\_\_\_

Casing set at: 118 ft.  
Top of cement: Surface ft.  
Method of  
determination Circulated

*2 3/8" Hb4  
coated*

*Arrowset 1X  
coated Pkr*

### INTERMEDIATE LINER/CASING

Hole size: 7-7/8 inches  
Casing size: 4 1/2 inches  
Weight: 9.5 lb/ft.  
Length: 2997 ft.

Cement type: Class A  
Amount: 75 sx.

Additives: 30% Diacel "D"  
Casing set at: 3003 ft.

Top of cement: 2200 Primary  
Method of Surface - 2nd cmt  
determination Calculated - Primary  
Circulated - 2nd

### PRODUCTION CASING DATA

Hole size: \_\_\_\_\_ inches  
Casing size: 3 1/2 inches  
Weight: 9.5 lb/ft.  
Length: 2980 ft.

Cement type: Class A  
Amount: 575 sx.

Additives: 2% gel & 2% CaCl  
Casing set at: 2980 ft.  
Top of cement: Surface ft.  
Method of  
determination Circulated

PBTD: N/A  
TD: 3061'

NOTE: All depths are to be  
from ground level. If KB  
depths are used, make  
notations on diagram and  
height of KB above ground  
level.

*TOC @  
2200'*

*3 1/2" @  
2980'*

*4 1/2" @ 3003'*

TD = 3061'



## WELL OPERATION & GEOLOGICAL DATA

Permit Number \_\_\_\_\_

(for Osage UIC use only)

Type of Injection Well: EOR -CO<sub>2</sub>  
(EOR / SWD / HC Storage)

(New / ~~Conversion~~ / Authorized By Rule)  
CO<sub>2</sub> water

### Injection:

Rate (B/D): Average 4000 MCF @ 1060 psig Maximum 6000 MCF @ 1060 psig

Fluid: Tds \_\_\_\_\_ sp. Gr. \_\_\_\_\_ Analyses Included: (~~Yes~~ / No)

Source (Formation name): Anthropogenic form various sources

Will anything be added to the water to be injected? ( Yes / No )

What will those additives be? \_\_\_\_\_

### Geologic Data:

*All references to depths are below land surface.*

Injection Intervals: 2989 to 3061; \_\_\_\_\_ to \_\_\_\_\_

Formation Name Burbank Lithology Sand Porosity (%) 17

Permeability (md) 96 Total formation thickness 72

Perforated or open hole interval Openhole 3003' - 3061'

Formation Name \_\_\_\_\_ Lithology \_\_\_\_\_ Porosity (%) \_\_\_\_\_

Permeability (md) \_\_\_\_\_ Total formation thickness \_\_\_\_\_

Perforated or open hole interval \_\_\_\_\_

Current Fluid Level in Well ??? ft. (below land surface) and / or

Current Reservoir Pressure \_\_\_\_\_ Date Not converted Yet

Drill Stem Test ( ~~Yes~~ / No ) If yes, attach copy.

Depth of nearest fresh water well(s) 100' @ 3.1 miles ft.

### Facilities Associated with Injection Well:

Adequate Berm around tank battery? ( Yes / ~~No~~ )

Leaking Flow Lines? (~~Yes~~ / No )

### Formation:

Top/Bottom From PBTD to Surface.

Checkerboard Line	2140	/	2170
Big Lime	2590	/	2670
Oswego Lime	2710	/	2805
Burbank sand	2989	/	3061 (TD)
		/	

APPLICANT'S PUBLIC NOTICE OF PERMIT AND VERIFICATION  
(§147.2918 (b) (s) and §147.2929 (d) (ii))

Chaparral Energy, L.L.C. is applying for a permit for a Class II  
(Operator Name)  
injection well. Well No. NBU 15-W21 is located 890 ft. from [XXX S] line and  
565 ft. from [XXX W] line. SW/4 Sec 11 27N 05E  
(1/4 Sec. & Sec. No.) (Twp.) (Rge.)  
The well will be used to inject CO<sub>2</sub> & Formation Water into the Burbank Sand  
(Fluid Type) (Formation Name)  
for (disposal/enhanced recovery). The well operator's address is  
701 Cedar Lake Blvd., Oklahoma City, OK 73114  
(Street/P.O. Box/City/State/Zip Code)

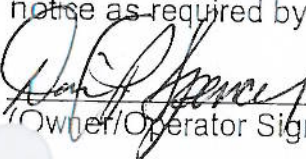
EPA may prepare a draft permit or a notice of intent to deny this application. Following the preparation of a draft permit or intent to deny, there will be an opportunity for public comments. For further information concerning the status of this application, please contact:

Osage UIC Office  
P. O. Box 1495  
Pawhuska, Oklahoma 74056  
Phone: (918) 287-5333

Notice Sent To: ☒ (Surface Owner/Tenant) ☐ (Operator) Circle one

Chaparral Energy, L.L.C.  
Name  
701 Cedar Lake Blvd.  
Address  
Oklahoma City, OK 73114  
City / State / Zip Code

I certify that the surface owner(s), the tenants on land where the injection well is located, and each operator of a producing lease within one-half mile of the well location was mailed a copy of this notice as required by 40 CFR §147.2918.

  
(Owner/Operator Signature) David P. Spencer  
Mgr. Reg. Affairs

5/19/2010  
(Date of Notice)



APPLICANT'S PUBLIC NOTICE OF PERMIT AND VERIFICATION  
(§147.2918 (b) (s) and §147.2929 (d) (ii))

Chaparral Energy, L.L.C. is applying for a permit for a Class II  
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Osage UIC Office  
P. O. Box 1495  
Pawhuska, Oklahoma 74056  
Phone: (918) 287-5333

Notice Sent To: (~~Surface Owner~~ Tenant/Operator) Circle one

Not Applicable  
Name  
Address  
City / State / Zip Code

I certify that the surface owner(s), the tenants on land where the injection well is located, and each operator of a producing lease within one-half mile of the well location was mailed a copy of this notice as required by 40 CFR §147.2918.

David P. Spencer  
(Owner/Operator Signature) Mgr. Reg. Affairs

5/19/2010  
(Date of Notice)

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§147.2918 (b) (s) and §147.2929 (d) (ii)

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(Street/P.O. Box/City/State/Zip Code)

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Osage UIC Office  
P. O. Box 1495  
Pawhuska, Oklahoma 74056  
Phone: (918) 287-5333

Notice Sent To: (Surface Owner/~~TENANT/OPERATOR~~) Circle one

Chaparral Energy, L.L.C.  
Name  
701 Cedar Lake Blvd.  
Address  
Oklahoma City, OK 73114  
City / State / Zip Code

I certify that the surface owner(s), the tenants on land where the injection well is located, and each operator of a producing lease within one-half mile of the well location was mailed a copy of this notice as required by 40 CFR §147.2918.

David P. Spencer  
(Owner/Operator Signature) Mgr. Reg. Affairs

5/19/2010  
(Date of Notice)



Form 5-156  
1956

B001236

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS  
NATIONWIDE OIL AND GAS LEASE BOND

CEI Bristol Acquisition, L.P., Chaparral Energy, L.L.C.,  
Chaparral Oil, L.L.C.

KNOW ALL MEN BY THESE PRESENTS, That we,

of 701 Cedar Lake Blvd., Oklahoma, OK 73114

as principals, and U.S. Specialty Insurance Company

of 13403 Northwest Freeway, Houston, TX 77040, as surety, are held and firmly bound unto the United States of America the sum of one hundred fifty thousand (\$150,000) dollars, lawful money of the United States for the payment of which, well and truly to be made, we bind ourselves and each of us, our and each of our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

Sealed with our seals and dated the 31st day of October, 2004

The condition of this obligation is such that whereas the said principal~~s~~ have heretofore or may hereafter enter into or otherwise acquire an interest in oil and gas mining leases and oil and gas prospecting permits of various dates and periods of duration covering lands or interests in lands held by the United States in trust for individual Indians, or tribes or bands of Indians, or subject to restrictions against alienation without the consent of the Secretary of the Interior or his authorized representative, which leases and permits have been or may hereafter be granted or approved by the Secretary of the Interior or his authorized representative, and the identification of which herein is expressly waived by both principal~~s~~ and surety hereto.

WHEREAS the principals and surety agree that the coverage of this bond shall extend to and include all extensions and renewals of leases and permits covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth therein.

WHEREAS the surety hereby waives any right to notice of any modification of any such lease or permit, or obligation thereunder whether effected by extension of time for performance, by commitment of such lease to unit, cooperative, or communitization agreement, by waiver, suspension, or charge in rental, except an increase thereof, by minimum royalty payment, except an increase thereof, by compensatory royalty payment, or otherwise, this bond to remain in full force and effect notwithstanding.

WHEREAS the principal~~s~~ and surety agree that the neglect or forbearance of the obligee of any such lease or permit in enforcing the payment of any rental or royalty or the performance of any other covenant, condition, or agreement of any such lease or permit shall not in any way release the principal~~s~~ and surety, or either of them, from any liability under this bond; and

WHEREAS the principals and surety agree that in the event of any default under any such lease or permit, the obligee may prosecute any claim, suit, action, or other proceeding against the principals and surety, or either of them, without the necessity of joining the other.

Now, if the said principal~~s~~ herein shall faithfully carry out and observe all the obligations assumed in said leases and permits to which CEI Bristol Acquisition, L.P., Chaparral Energy, L.L.C., Chaparral Oil, L.L.C. is now or may hereafter become a party, and shall observe all the laws of the United States and regulations made, or which shall be made, thereunder, for the government of trade and intercourse with Indian tribes, and all rules and regulations that have been or shall hereafter be lawfully prescribed

by the Secretary of the Interior relative to said oil and gas mining leases and permits, and shall in all particulars comply with the provisions of said leases, permits, rules and regulations, then this obligation shall become null and void; otherwise, to remain in full force and effect.

The rate of premium charged on this bond is \$ 25/1000; the total premium paid is \$ \*\*3,750.00\*\*.

Signed and sealed in the presence of--  
WITNESSES\*

X Thomas C. Lough  
Thomas C. Lough  
P.O. 701 Cedar Lake Blvd., OKC, OK 73114

X Terrell N. Lay  
Terrell N. Lay  
P.O. 701 Cedar Lake Blvd., OKC OK 73114

CEI Bristol Acquisition, L.P., Chaparral Energy, L.L.C.,  
Chaparral Oil, L.L.C.

as to Mark A. Fischer [SEAL]  
Mark A. Fischer, Manager

P.O. Molly Battenfield  
Molly Battenfield  
777 Post Oak Blvd., Suite 330, Houston, TX 77056

P.O. Diane E. Carey  
Diane E. Carey  
777 Post Oak Blvd., Suite 330, Houston, TX 77056

U.S. Specialty Insurance Company  
as to W. Russell Brown, Jr. [SEAL]  
W. Russell Brown, Jr., Attorney-in-Fact

as to \_\_\_\_\_ [SEAL]

as to \_\_\_\_\_ [SEAL]

DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS  
DEPUTY BUREAU DIRECTOR-TRUST SERVICES  
1849 C STREET, N.W., MS-4639-MIB  
WASHINGTON, D. C. 20240

2-16-, 2005

Approved:

Ben K. Burgh  
DEPUTY BUREAU DIRECTOR - TRUST SERVICES



**Important Notice Regarding  
Terrorism Risk Insurance Act of 2002**

In accordance with the Terrorism Risk Insurance Act of 2002 (the "Act"), this disclosure notice is provided for surety bonds on which U.S. Specialty Insurance Company is the issuing surety.

The premium attributable to any bond coverage for "acts of terrorism" as defined in Section 102(1) of the Act is Zero Dollars (\$0.00).

The United States will reimburse the Issuing Sureties for ninety percent (90%) of any covered losses from terrorist acts certified under the Act exceeding the applicable surety deductible.

The actual coverage provided by your bond for acts of terrorism, as is true for all coverages, is limited by the terms, conditions, exclusions, penalties, limits, other provisions of your bond and the underlying contract, any endorsements to the bond and generally applicable rules of law. This Important Notice Regarding Terrorism Insurance Risk Act of 2002 is for informational purposes only and does not create coverage nor become a part or condition of the attached document.

The rest of this page is intentionally left blank.

# POWER OF ATTORNEY

PA001236

(To be used with bonds issued on behalf of U. S. SPECIALTY INSURANCE COMPANY)

now All Men by These Presents That, U. S. SPECIALTY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Edwin H. Frank III, W. Russell Brown, Jr.

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed Three Million Dollars (\$3,000,000) and to bind the Company thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming that the said Attorney-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of the U. S. Specialty Insurance Company:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted by unanimous written consent in lieu of meeting on July 7, 2003.)

In Witness Whereof, U. S. SPECIALTY INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 24<sup>th</sup> of August, 2004.

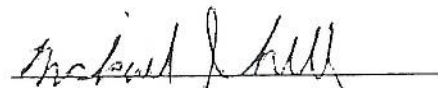
Corporate Seal

U. S. SPECIALTY INSURANCE COMPANY  
By

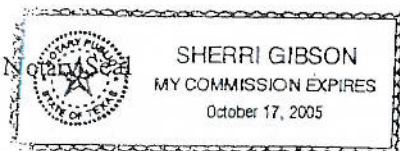
State of Texas


County of Harris

ss:

  
Michael J. Schell, President

On this 24<sup>th</sup> of August before me personally came Michael J. Schell, to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of U. S. SPECIALTY INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.

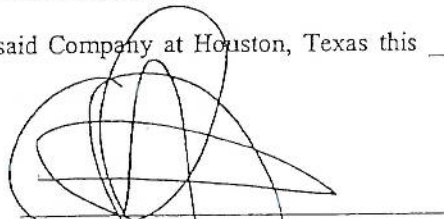


, Notary Public  
My commission expires 10-17-05

I, Christopher L. Martin, Secretary of U. S. SPECIALTY INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seal of said Company at Houston, Texas this 31<sup>st</sup> day of October, 2004.

Corporate Seal

  
Christopher L. Martin, Secretary



Bond No. B001236

ASSUMPTION OF LIABILITY RIDER

It is hereby agreed by and between the undersigned principal and surety, in consideration for the additional premium or consideration paid for this rider, if any, and the consent by the United States to terminate the period of liability on surety bond number 886682C, carrying the same principal and Developers Surety and Indemnity Company as surety, the undersigned principal and surety hereby assume any and all liabilities that may be outstanding on surety bond number 886682C, including, but not limited to, the obligation to properly plug and abandon all wells existing, to which surety bond number 886682C, applies and any unpaid rentals or royalties heretofore accruing; provided, however, that this rider shall not act to increase the potential or cumulative liability of the surety above the face amount of the bond to which this rider attaches.

Executed this 31st day of October, 2004.

Witnesses

Name of Witness

Thomas C. Lough

701 Cedar Lake Blvd., OKC, OK

✓ Address of Witness

701 Cedar Lake Blvd., OKC, OK

Principal's Address

Molly Battenfield  
Name of Witness Molly Battenfield

777 Post Oak, Ste 330, Houston, TX 77056

Address of Witness

CEI Bristol Acquisition, L.P.,

Chaparral Energy, L.L.C.,

Chaparral Oil, L.L.C.

Name of Principal

Mark A. Fischer  
Signature

73114 Mark A. Fischer, Manager

Name and title of person executing for Principal

U.S. Specialty Insurance Company

Name of Surety

W. Russell Brown, Jr.  
Signature

W. Russell Brown, Jr., Attorney-in-Fact

Name and title of person executing for Surety

13403 Northwest Freeway, Houston, TX 77040

Surety's Address

# POWER OF ATTORNEY

PA001236

(To be used with bonds issued on behalf of U. S. SPECIALTY INSURANCE COMPANY)

Now All Men by These Presents That, U. S. SPECIALTY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Edwin H. Frank III, W. Russell Brown, Jr.

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed Three Million Dollars (\$3,000,000) and to bind the Company thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming that the said Attorney-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of the U. S. Specialty Insurance Company:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted by unanimous written consent in lieu of meeting on July 7, 2003.)

In Witness Whereof, U. S. SPECIALTY INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 24<sup>th</sup> of August, 2004.

Corporate Seal

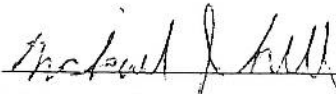
U. S. SPECIALTY INSURANCE COMPANY

By

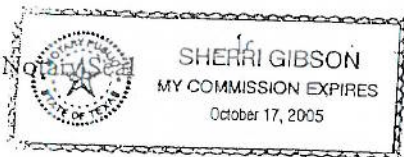
State of Texas


County of Harris

ss:

  
Michael J. Schell, President

On this 24<sup>th</sup> of August before me personally came Michael J. Schell, to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of U. S. SPECIALTY INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.

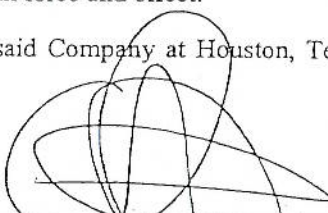


  
My commission expires 10-17-05

I, Christopher L. Martin, Secretary of U. S. SPECIALTY INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seal of said Company at Houston, Texas this 31<sup>st</sup> day of October, 2004.

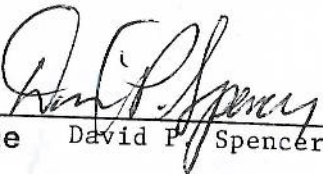
Corporate Seal

  
Christopher L. Martin, Secretary



## CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibilities of fine and imprisonment.

  
Name David P. Spencer

Manager of Regulatory Affairs  
Title

*\*If certification is signed by a party other than the injection well owner/operator a written statement of authorization signed by the owner/operator must accompany the application.*

## STATEMENT OF AUTHORIZATION

I, Mark A. Fischer, hereby authorize David P. Spencer to act in my behalf in executing any necessary forms, to include Permit Applications, Compliance Reports, etc., as required by the Environmental Protection Agency Underground Injection Control Program.

Mark A. Fischer

Printed Name

*Mark A. Fischer*

Signature

Manager of Chaparral Energy, L.L.C.

Title

March 12, 2009

Date